

LSU Northeast Research Station

Evaluation of Grasp for weed control in Clearfield rice.

Trial ID: SJ05R009

Study Dir.:

Location:

Investigator: Bill Williams

GENERAL TRIAL INFORMATION

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	SEBEX Coffeebean	Sesbania exaltata
3.	COMDI Dayflower, spreading	Commelina diffusa
4.	CNPPA Texasweed	Caperonia palustris
5.	CYPCP Annual sedge	Cyperus compressus

Crop 1: ORYSA RICE

Variety: CL161

Planting Date: 5/16/05

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 IN

Row Spacing: 8 IN

Spacing Within Row: 5 FT

Seed Bed: MEDIUM

Soil Moisture: DRY

Emergence Date: 5/25/05

SITE AND DESIGN

Plot Width, Unit: 6.67 FT

Plot Length, Unit: 15 FT

Reps: 3

Site Type: RICE PADDY

Tillage Type: CONVENTIONAL-TILL

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 25.2	% OM: 2.07	Texture: Clay
% Silt: 32.8	pH: 7.87	Soil Name: Sharky clay
% Clay: 42	CEC: 21.9	Fert. Level: EXCELLENT

MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/17/05	10:00		Flushed	0	na
2.	5/21/05	10:00		Flushed	0	na
3.	5/25/05	8:00 PM	0.78	in	Rainfall	0
4.	5/29/05	1:00 AM	0.63	in	Rainfall	0
5.	5/30/05	11:00 A	1.51	in	Rainfall	0
6.	5/31/05	8:00 PM	0.26	in	Rainfall	0
7.	6/2/05	4:00 PM	0.04	in	Rainfall	0
8.	6/6/05	7:00 PM	0.39	in	Rainfall	0
9.	6/17/05			300 lb Urea - Permanent flood	0	na
10.	6/18/05	11:00 A	0.42	in	Rainfall	0
11.	7/3/05	6:00 PM	0.06	in	Rainfall	0
12.	7/6/05	1:30 PM	1.6	in	Rainfall	0
13.	7/8/05	1:45 PM	0.93	in	Rainfall	0
14.	7/10/05	1:00 PM	0.04	in	Rainfall	0
15.	7/14/05	2:00 PM	0.44	in	Rainfall	0
16.	7/16/05	10:00 P	0.04	in	Rainfall	0
17.	7/17/05	1:00 PM	0.25	in	Rainfall	0
18.	7/18/05	7:00 PM	0.05	in	Rainfall	0
19.	7/22/05	2:30 PM	0.15	in	Rainfall	0
20.	8/4/05	3:30 PM	0.27	in	Rainfall	0
21.	8/5/05	8:00 PM	0.45	in	Rainfall	0
22.	8/6/05	6:00 PM	0.25	in	Rainfall	0
23.	8/16/05	6:00 PM	1.31	in	Rainfall	0

24. 8/22/05 9:00 PM 0.05 in Rainfall

0

na

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Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: MI

APPLICATION DESCRIPTION

	A	B
Application Date:	5/26/05	6/9/05
Time of Day:	11:00	2:00
Application Method:	SPRAY	SPRAY
Application Timing:	1-2 lf	4-5 lf
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	85 F	90 F
% Relative Humidity:	33	57
Wind Velocity, Unit:	3 S	3 E
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	94 F	99 F
Soil Moisture:	MOIST	DRY
% Cloud Cover:	0	40

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ORYSA 1-2 lf	ORYSA 5lf-1T
Stage Scale:	2 in	4-5 in

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG 3-4 lf	ECHCG 5 lf
Stage Scale:	2-3 in	2-3 in
Weed 2 Code, Stage:	SEBEX 1 lf	SEBEX 4-5 lf
Stage Scale:	1 in	4-6 in
Weed 3 Code, Stage:	COMDI 1 lf	COMDI 3 lf
Stage Scale:	1 in	1-2 in
Weed 4 Code, Stage:	CNPPA 1-2 lf	CNPPA 2-3 lf
Stage Scale:	1 in	1-2 in
Weed 5 Code, Stage:	CYPCP 1 lf	CYPCP 4 lf
Stage Scale:	0.5 in	3-4 in

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	31	31
Nozzle Type:	Greenleaf	Greenleaf
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	4	4
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA
Propellant:	CO2	CO2

LSU Northeast Research Station

Evaluation of Grasp for weed control in Clearfield rice.

Trial ID: SJ05R009
 Location:

Study Dir.:
 Investigator: Bill Williams

Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	SEBEX					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	%	%	%	%	%					
Rating Date	6/15/05	6/30/05	7/14/05	8/10/05	6/15/05					
Trt-Eval Interval	6 DA-B	21 DA-B	35 DA-B	62 DA-B	6 DA-B					
Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5	
1	Newpath	4	OZ/A 1-2 lf	80		b 87	b 87	a 87	a 0	e
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							
2	Newpath	4	OZ/A 1-2 lf	87		ab 87	b 87	a 87	a 80	ab
	Grasp	2	OZ/A 1-2 lf							
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							
3	Newpath	4	OZ/A 1-2 lf	88		a 93	a 90	a 90	a 73	bc
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	Grasp	2	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							
4	Newpath	4	OZ/A 1-2 lf	92		a 92	ab 90	a 90	a 80	ab
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	Grasp	2	OZ/A 4-5 lf							
	Granstand	8	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							
6	Newpath	4	OZ/A 1-2 lf	88		a 92	ab 90	a 90	a 73	bc
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	Stam M4	1	QT/A 4-5 lf							
	Granstand	8	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							
7	Newpath	4	OZ/A 1-2 lf	90		a 95	a 88	a 88	a 57	d
	COC	1	PT/A 1-2 lf							
	Newpath	4	OZ/A 4-5 lf							
	Stam M4	2	QT/A 4-5 lf							
	Granstand	8	OZ/A 4-5 lf							
	COC	1	PT/A 4-5 lf							

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	SEBEX				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%				
Rating Date	6/15/05	6/30/05	7/14/05	8/10/05	6/15/05				
Trt-Eval Interval	6 DA-B	21 DA-B	35 DA-B	62 DA-B	6 DA-B				
Trt Treatment	Rate	Grow							
No. Name	Rate	Unit	Stg	1	2	3	4	5	
8 Newpath	4	OZ/A	1-2 lf	80	b 90	ab 92	a 92	a 60	d
COC	1	PT/A	1-2 lf						
Newpath	4	OZ/A	4-5 lf						
Stam M4	2	QT/A	4-5 lf						
Granstand	11	OZ/A	4-5 lf						
COC	1	PT/A	4-5 lf						
9 Newpath	4	OZ/A	1-2 lf	92	a 93	a 92	a 92	a 90	a
Facet	5.3	OZ/A	1-2 lf						
COC	1	PT/A	1-2 lf						
Newpath	4	OZ/A	4-5 lf						
COC	1	PT/A	4-5 lf						
10 Newpath	4	OZ/A	1-2 lf	88	a 92	ab 92	a 92	a 67	cd
COC	1	PT/A	1-2 lf						
Newpath	4	OZ/A	4-5 lf						
Facet	5.3	OZ/A	4-5 lf						
COC	1	PT/A	4-5 lf						
11 Untreated				0	c 0	c 0	b 0	b 0	e
LSD (P=.05)				6.9	5.7	6.9	6.9	10.6	
Bartlett's X2				3.282	2.96	3.414	3.414	1.924	
P(Bartlett's X2)				0.657	0.889	0.636	0.636	0.86	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code				SEBEX	SEBEX	SEBEX	COMDI	COMDI		
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit				%	%	%	%	%		
Rating Date				6/30/05	7/14/05	8/10/05	6/30/05	7/14/05		
Trt-Eval Interval				21 DA-B	35 DA-B	62 DA-B	21 DA-B	35 DA-B		
Trt No.	Treatment Name	Rate	Grow Unit	Stg	6	7	8	9	10	
1	Newpath	4	OZ/A	1-2 lf	0	f 0	d 0	d 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
2	Newpath	4	OZ/A	1-2 lf	63	de 0	d 0	d 95	a 95	a
	Grasp	2	OZ/A	1-2 lf						
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
3	Newpath	4	OZ/A	1-2 lf	85	a 80	ab 80	ab 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	Grasp	2	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
4	Newpath	4	OZ/A	1-2 lf	75	bc 78	b 78	b 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	Grasp	2	OZ/A	4-5 lf						
	Granstand	8	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
6	Newpath	4	OZ/A	1-2 lf	57	e 53	c 53	c 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	Stam M4	1	QT/A	4-5 lf						
	Granstand	8	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
7	Newpath	4	OZ/A	1-2 lf	67	cd 53	c 53	c 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	Stam M4	2	QT/A	4-5 lf						
	Granstand	8	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						
8	Newpath	4	OZ/A	1-2 lf	57	e 58	c 58	c 95	a 95	a
	COC	1	PT/A	1-2 lf						
	Newpath	4	OZ/A	4-5 lf						
	Stam M4	2	QT/A	4-5 lf						
	Granstand	11	OZ/A	4-5 lf						
	COC	1	PT/A	4-5 lf						

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Weed Code	SEBEX	SEBEX	SEBEX	COMDI	COMDI				
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%				
Rating Date	6/30/05	7/14/05	8/10/05	6/30/05	7/14/05				
Trt-Eval Interval	21 DA-B	35 DA-B	62 DA-B	21 DA-B	35 DA-B				
Trt Treatment	Rate	Grow							
No. Name	Rate	Unit	Stg	6	7	8	9	10	
9 Newpath	4	OZ/A	1-2 lf	85	a 88	a 88	a 95	a 95	a
Facet	5.3	OZ/A	1-2 lf						
COC	1	PT/A	1-2 lf						
Newpath	4	OZ/A	4-5 lf						
COC	1	PT/A	4-5 lf						
10 Newpath	4	OZ/A	1-2 lf	83	ab 77	b 77	b 95	a 95	a
COC	1	PT/A	1-2 lf						
Newpath	4	OZ/A	4-5 lf						
Facet	5.3	OZ/A	4-5 lf						
COC	1	PT/A	4-5 lf						
11 Untreated				0	f 0	d 0	d 0	b 0	b
LSD (P=.05)				8.4	9.6	9.6	0.0	0.0	
Bartlett's X2				0.134	5.041	5.041	0.0	0.0	
P(Bartlett's X2)				1.00	0.411	0.411	.	.	

Means followed by same letter do not significantly differ (P=.05, LSD)
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Weed Code COMDI
 Part Rated PLATOT P
 Rating Data Type CONTROL
 Rating Unit %
 Rating Date 8/10/05
 Trt-Eval Interval 62 DA-B

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11
1	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
2	Newpath	4	OZ/A	1-2 lf	95 a
	Grasp	2	OZ/A	1-2 lf	
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
3	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	Grasp	2	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
4	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	Grasp	2	OZ/A	4-5 lf	
	Granstand	8	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
6	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	Stam M4	1	QT/A	4-5 lf	
	Granstand	8	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
7	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	Stam M4	2	QT/A	4-5 lf	
	Granstand	8	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	
8	Newpath	4	OZ/A	1-2 lf	95 a
	COC	1	PT/A	1-2 lf	
	Newpath	4	OZ/A	4-5 lf	
	Stam M4	2	QT/A	4-5 lf	
	Granstand	11	OZ/A	4-5 lf	
	COC	1	PT/A	4-5 lf	

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Weed Code	COMDI
Part Rated	PLATOT P
Rating Data Type	CONTROL
Rating Unit	%
Rating Date	8/10/05
Trt-Eval Interval	62 DA-B

Trt	Treatment	Rate	Unit	Stg	11	
9	Newpath	4	OZ/A	1-2 lf	95	a
	Facet	5.3	OZ/A	1-2 lf		
	COC	1	PT/A	1-2 lf		
	Newpath	4	OZ/A	4-5 lf		
	COC	1	PT/A	4-5 lf		
10	Newpath	4	OZ/A	1-2 lf	95	a
	COC	1	PT/A	1-2 lf		
	Newpath	4	OZ/A	4-5 lf		
	Facet	5.3	OZ/A	4-5 lf		
	COC	1	PT/A	4-5 lf		
11	Untreated				0	b

LSD (P=.05)	0.0
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Bartlett's X2	0.0
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P(Bartlett's X2)	.
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Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.